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APPLICATION NO.	FIL	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.		
09/864,309	0.	5/25/2001	Shigeyuki Uzawa	862.C2239	862.C2239 2803		
5514	7590	08/10/2004		EXAMINER			
FITZPATRI 30 ROCKEFF		LA HARPER &	JARRETT, RYAN A				
NEW YORK, NY 10112				ART UNIT	PAPER NUMBER		
				2125			

DATE MAILED: 08/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	S
// Office Action Summary	09/864,309	UZAWA ET AL.	U
Office Action Summary	Examiner	Art Unit	
·	Ryan A. Jarrett	2125	
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.′ after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replif NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be till ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication (35 U.S.C. § 133).	on.
Status			
1) Responsive to communication(s) filed on 26 J	<u>uly 2004</u> .		
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.		
3) Since this application is in condition for allowa	nce except for formal matters, pre	osecution as to the merits i	is
closed in accordance with the practice under the	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4) Claim(s) 48-62 is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>48-62</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9) ☐ The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the	• ,	` '	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex			(d).
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority 	ts have been received. Is have been received in Applicat	ion No	
application from the International Burea	u (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	of the certified copies not receive	ed.	
Attachment(s)	Λ. []	(DTO 440)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail D		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)	

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 59 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear what is meant by an "ambient atmosphere" of a "temperature control mechanism". And it is not clear how this atmosphere would be different from another atmosphere in the same chamber.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 48-54 and 60-62 are rejected under 35 U.S.C. 102(e) as being anticipated by Hasegawa et al. U.S. Patent No. 6,406,245. Hasegawa et al. discloses an exposure apparatus for exposing a wafer to a pattern, said apparatus comprising: a

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chamber (e.g., Fig. 3 #101) in which an atmosphere is conditioned to be different from an atmosphere in another apparatus (e.g., Fig. 3 #131) outside of said exposure apparatus and the wafer is exposed to the pattern; and a port section (e.g., Fig. 3 #102a) through which the wafer is transferred between said chamber and the other apparatus, said port section having a load-lock mechanism (e.g., Fig. 3 #109a, #122a) including a vacuum mechanism for creating a vacuum below atmospheric pressure inside of said port section and a supply mechanism for supplying an inert gas into the inside of said port section (e.g., col. 5 lines 56-65);

wherein said exposure apparatus includes a plurality of said port sections (e.g., Fig. 3 #102a, #102b); wherein said port sections include a first port section for loading the wafer (e.g., Fig. 3 #102a) and a second port section for unloading the wafer (e.g., Fig. 3 #102b); further comprising an interface section (e.g., Fig. 3 #121) for stocking a wafer between said port section and the other apparatus; wherein said interface section includes a load-lock mechanism (e.g., Fig. 3 #122a, #122b); wherein said interface section is shared by a plurality of said port sections (e.g., Fig. 3 #121, #102a, #102b); wherein the other apparatus includes a coating/developing system (e.g., Fig. 3 #131, #132);

a device manufacturing system comprising: an exposure apparatus defined in claim 48 (e.g., Fig. 3 #101); and another apparatus which performs for a wafer at least one of a pre-process (e.g., Fig. 3 #131) and a post-process (e.g., Fig. 3 #132) with respect to an exposure process to be performed by said exposure apparatus; a device manufacturing method comprising a step of exposing a wafer to a pattern using an

exposure apparatus defined in claim 48 (e.g., col. 5 line 66 – col. 7 line 5); a device manufacturing method comprising a step of processing a wafer using a device manufacturing system as defined in claim 60 (e.g., col. 5 line 66 – col. 7 line 5).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 55-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hasegawa et al. as applied to claim 48 above. Hasegawa et al. does not explicitly disclose that the port section includes a temperature control mechanism comprising at least one of a heater and a cooler; or that the process chamber includes a temperature control mechanism.

However, such devices are well known in the art. For example, Ueda et al. discloses a substrate processing apparatus comprising an aligner process chamber that includes a temperature control mechanism (e.g., col. 1 lines 50-53); and further comprising a port section that includes a temperature control mechanism that includes at least one of a heater and a cooler (e.g., col. 1 lines 61-64, col. 8 lines 28-37). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the instant application to modify Hasegawa et al. with Ueda et al. since Ueda et al. teaches that a temperature regulating means for regulating the temperature of a

substrate held by a port section in accordance with the temperature regulation in an aligner is advantageous so that the substrate can be delivered to the aligner in a state where the temperature of the substrate is regulated closer to the temperature required in the aligner. Accordingly, the temperature of the substrate can be more accurately regulated in the aligner in a shorter time, so that circuit patterns can be accurately transferred, and throughput can be improved by speeding up the processing (e.g., col. 1 line 65 – col. 2 line 8).

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan A. Jarrett whose telephone number is (703) 308-4739. The examiner can normally be reached on 10:00-6:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard can be reached on (703) 308-0538. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Ryan A. Jarrett Examiner Art Unit 2125

8/3/04

ALBERT W PALADINI

PRIMARY EXAMINER